talentgal

Engineering & Technology

Antenna beamforming with AI

Description

Research on AI-assisted beamforming and antenna systems for aerospace and satellite scenarios, including array optimization, adaptive beam steering, propagation-aware control and intelligent integration of antenna subsystems in advanced communication architectures.

Infrastructures

The Antennas, Radar and Optical Communications environment at atlanTTic includes an anechoic chamber for antenna measurements and electromagnetic characterization, along with RF signal generation and frequency analysis equipment supporting experimental validation activities.

Keywords

Adaptive Arrays | Aerospace Communications | Antenna Beamforming | Artificial Intelligence | Beam Steering | Propagation Modelling | Satellite Antennas

CIGUS Network
Research Centres of the Galician University System

Co-funded by the European Union

Fondos Europeos

GALICIA CALIDADE

Xacobeo 2027